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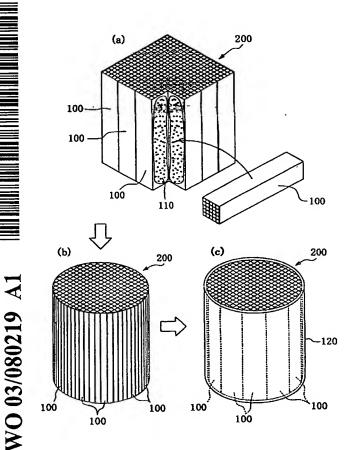
(71) 出願人 (米国を除く全ての指定国について): イビデン株式会社 (IBIDEN CO., LTD.) [JP/JP]; 〒503-0917 岐阜県 大垣市 神田町 2 丁目 1 番地 Gifu (JP). (72) 発明者; および

- (75) 発明者/出願人 (米国についてのみ): 大野 一茂 (OHNO,Kazushige) [JP/JP]; 〒501-0601 岐阜県 揖斐郡 揖斐川町 北方1-1 イビデン株式会社内 Gifu (JP). 田岡 紀之 (TAOKA,Noriyuki) [JP/JP]; 〒501-0601 岐阜県 揖 斐郡揖斐川町 北方1-1 イビデン株式会社内 Gifu (JP).
- (74) 代理人: 小川 頃三 , 外(OGAWA,Junzo et al.); 〒104-0061 東京都 中央区 銀座2丁目8番9号 木挽館銀座 ビル Tokyo (JP).
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[続葉有]

(54) Title: FILTER FOR EXHAUST GAS DECONTAMINATION

(54) 発明の名称: 排ガス浄化用フィルタ



(57) Abstract: A filter for exhaust gas decontamination exhibiting high thermal conductivity despite having relatively high porosity, or, while holding the thermal conductivity of the whole body of filter low, containing a high refractive index substance or pigment so as to allow the whole body of filter to exhibit the property of being warmed soon and cooled late. This filter comprises a support of porous ceramic and, superimposed on a surface thereof, a catalyst coat layer carrying an active component of catalyst, wherein the support of porous ceramic is either one having a porosity of 40 to 80% and exhibiting a thermal conductivity as filter of 3 to 60 W/mk, or one exhibiting a thermal conductivity of 0.3 to 3 W/mk and containing a high refractive index substance or pigment.

(57) 要約: 気孔率が比較的高いにもかかわらず高い熱伝 専性を有するもの、またはフィルタ全体としての熱伝 導性を低くしたままで、高屈折率物資もしくは顔料を含むものとしてフィルタ全体が温まりやすく冷めにくい特性を示す排ガス浄化用フィルタを提供することを目的とする。このフィルタは、多孔質セラミック担体の気孔率が40~80%であり、かつフィルタとしての熱伝導率が3~60W/mk の特性を示すものか、熱伝導率は0.3~3W/mkで屈折率の大きい物質または顔料を含有するものである。

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A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B01D39/20, B01D46/00, F01N3/02				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) - Int.Cl ⁷ B01D39/20, B01D46/00, F01N3/02				
Int.Cl B01D39/20, B01D40/00, F01N3/02				
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003 Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
WPI				
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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
P,X	JP 2002-201082 A (NGK Insula	tors, Ltd.),	1-6,13-15	
	16 July, 2002 (16.07.02),	01 to page 6		
	Claims; page 4, Par. No. [002 Par. No. [0050]	of to page of		
	(Family: none)		*	
A	JP 3-258316 A (Toyota Motor Corp.), 18 November, 1991 (18.11.91),			
	Claims: page 2, lower right column, line 7 to			
	page 3, upper right column, 1	ine 6		
	(Family: none)	• , ! ,		
E,A	JP 2003-155908 A (NGK Insulators, Ltd.), 1-15			
	30 May, 2003 (30.05.03),			
	Claims; page 8, Par. No. [0052] to page 10,. Par. No. [0062]			
	(Family: none)		·	
Furth	er documents are listed in the continuation of Box C.	See patent family annex.		
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Date of the actual completion of the international search Date of mailing of the international search report				
17 June, 2003 (17.06.03) 01 July, 2003 (01.07.03)				
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